IN THE CLAIMS

SUB / 11.

(Amended) A method of printing an electronic component comprising:

providing a surface;

providing a redox couple comprising an oxidizer and a reducer;

solubilizing at least one of the oxidizer and the reducer in a first solution that contains no more than 5% particulates by weight;

applying the first solution to the surface in a desired pattern, <u>rather than coating the entire</u> surface with the first solution, to create a first layer;

initiating a redox reaction in the first layer; and completing the component by adding at least one additional layer.

- 2. (Amended) The method of claim 1 wherein the component comprises [is] an active component.
- 3. (Original) The method of claim 1 wherein the component comprises an integrated component.
- 4. (Original) The method of claim 1 wherein the component comprises a power source.
- 5. (Original) The method of claim 1 wherein the component comprises a battery.
- 6. (Original) The method of claim 1 wherein at least one of the oxidizer and the reducer comprises a metal containing compound, the metal selected from the list consisting of copper, iron, cobalt, tin, gold, silver, palladium, platinum, nickel, lithium, aluminum, and titanium.
- 7. (Original) The method of claim 1 wherein the oxidizer is a strong oxidizer and the reducer is a strong reducer.
- 8. (Original) The method of claim 1 wherein the redox couple includes a material selected from the list consisting of formate, nitrate, alkoxide nitrate, alkoxide perchlorate, acetate nitrate, acrylate nitrate.



- 9. (Original) The method of claim 1 wherein applying comprises depositing the first solution using at least one of a stamp and a jet.
- 10. (Original) The method of claim 1 wherein at least one of the first layer or the at least of one additional layers comprises an electrolyte.
- 11. (Original) The method of claim 1 wherein the redox reaction results in the first layer consisting essentially of a pure metal.
- 12. (Original) The method of claim 1 wherein the redox reaction results in the first layer consisting essentially of a mixed metal oxide.
- 13. (Original) The method of claim 1 wherein initiating the redox reaction comprising radiating the applied solution with microwave radiation.
- 14. (Original) The method of claim 1 wherein completing the component comprises:

 providing a second redox couple comprising a second oxidizer and a second reducer;

 solubilizing at least one of the second oxidizer and the second reducer in a second solution;
 - depositing the second solution onto the first layer, and initiating a redox reaction in the second solution.
- 15. (Original) The method of claim 1 wherein the component comprises a battery, and applying comprises depositing the first solution using at least one of a stamp, a rotating plate, and a jet.
- 16. (Original) The method of claim 1 further comprising:

 providing a second redox couple comprising a second oxidizer and a second reducer;

 solubilizing at least one of the second oxidizer and the second reducer in a second solution;
 - depositing successive layers of the second solution, and initiating a redox reaction in the successive layers to produce a solid conductor that electrically couples at least two of the layers of the component that are mutually non-adjacent.
- 17. Canceled.

- 18. (Previously Amended) A method of printing an electronic circuit comprising:

 printing a plurality of components according to one of the methods of claims 1 16; and
 applying the first solution to the surface in a desired pattern that connects at least two of
 the plurality of components, and initiating the redox reaction in the desired pattern
 to produce a conductive trace between the at least two components.
- 19. (Amended) The method of claim 1[7]8 wherein the pattern has a lateral resolution below 10 μm.
- 20. (Amended) The method of claim 1[7]8 wherein the circuit includes a transistor, a power source, and a capacitor.
- 21. (New) The method of claim 1 dependent on claim 1, applying the oxidizer and reducer in the desired pattern.
- 22. (New) The method of claim 1 wherein the reducer and the oxidizer are each applied to the surface in the desired pattern.
- 23. (New) A method of printing an electronic component comprising:

 providing a surface;

 providing a redox couple comprising an oxidizer and a reducer;

 solubilizing at least one of the oxidizer and the reducer in a first solution that contains no more than 5% particulates by weight;

applying the first solution to the surface in a pattern of a trace to create a first layer; applying energy to the entire surface; initiating a redox reaction in the first layer; and completing the component by adding at least one additional layer.

